**Hacking Research Report**

**Executive Summary**

This report provides information on Apple, Microsoft, and Facebook, multinational corporations. It includes details about the organization's domain, website, social media presence, headquarters location, key officers, employee count, business partners, and clients. The report is structured with sections on methodology, technical research results, public domain research results, findings and conclusions, and avenues for further research.

The Whois command gathered information such as the domain owner's contact data, the domain's registration date, and the server names that the corporations use. Fast traceroute disclosed the number of hops a data packet must take to get to its destination, as well as the IP addresses associated with those hops. With this knowledge, a hacker can verify who owns the domain and launch a man-in-the-middle attack to intercept sensitive data being sent over the network.

**Methodology**

The information presented in this report was gathered through a combination of technical research (Sam Spade application) and publicly available sources (Google). Technical research involved accessing their official website and social networking sites, while public domain research utilized publicly accessible data sources.

**Technical Research Results**

**Apple**

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A screenshot of a computer program

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**Microsoft**

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**Facebook**

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**Walmart**

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Name of the target organization

*Walmart*

Domain name and extension (domain.ext) for the target organization (for example, amazon.com) *www.walmart.com*

URLs for the e-commerce website and any social networking sites

*https://www.walmart.com*

[*https://www.linkedin.com/company/walmart*](https://www.linkedin.com/company/walmart)

*https://www.facebook.com/walmart*

Physical address of the main headquarters location used by the target company; use Google Maps to locate the building.

*Corporate headquarters at 702 SW 8th St, Bentonville, AK 72716*

*A close up of a name

Description automatically generated*

Names of officers (for example, CEO, president, and CIO) at the organization.

*Doug McMillon – CEO & President, Dan Bartlett – Executive Vice President, Rachel Brand – Executive Vice President of Global Governance, Gregory B. Penner - Chairman of the Walmart Inc. Board of Directors.*

*A person in a blue shirt

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Number of employees at each major physical location

*2.1 million associates around the world, and 1.6 million in the US alone.*

Business partners or clients of the organization

*153 partners, which include Magneto, Netsuits, Avalara, WooCommerce, Kenshoo, and eHub among others.*

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**Public Domain Research Results**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Target Organization: | | Domain Name and Extension: | | | E-commerce Website URL: | | |
|  |  |  |  |  |  |  |  |
| Apple |  | [www.apple.com](http://www.apple.com/) | |  | https://www.apple.com | | |
| Microsoft |  | [www.microsoft.com](http://www.microsoft.com/) | | | https://www.microsoft.com | | |
| Facebook |  | [www.facebook.com](http://www.facebook.com/) | | | https:// www.facebook.com | | |
| Walmart |  | [www.walmart.com](http://www.walmart.com) | | | https://www.walmart.com | | |
|  |  |  | | |  | | |

**Findings and Conclusion**

This report has provided a snapshot of these 4 corporations. Key findings conclude the number of hops data packets made to reach their destination of all these corporations. Pinging all four domains returns a reply, this means the servers are up for further passive reconnaissance. The findings also include the IP address of the devices the packets/data travel to reach the destination end devices. An attacker might be able to capture packets of data being sent across these multiple hops.

**Avenues for Further Research**

To gain deeper insights into these corporations, further research avenues may include:

Financial Analysis: Investigate financial performance and annual reports to be sure that if an attack is carried out for ransomware, it will be successful.

Research will also be conducted into the systems, firewalls, and general security postures of the corporations. This will help to identify tools that are required for a successful attack.